

Title (en)  
Self-tuning acoustic measurement system

Title (de)  
Selbsteinstellendes akustisches Messsystem

Title (fr)  
Système de mesure acoustique auto-réglable

Publication  
**EP 2381271 A1 20111026 (EN)**

Application  
**EP 11158242 A 20110315**

Priority  
US 76763010 A 20100426

Abstract (en)  
In one embodiment, an acoustic distance measurement system (100) can dynamically adjust its measurement frequency (402) to a frequency that is within a preselected bandwidth (510) of the resonant frequency (404) of an acoustic transducer (104) used in making acoustic distance measurements.

IPC 8 full level  
**G01S 15/10** (2006.01); **B06B 1/02** (2006.01); **G01S 7/524** (2006.01); **G01S 15/931** (2020.01)

CPC (source: EP US)  
**B06B 1/0253** (2013.01 - EP US); **G01S 7/52036** (2013.01 - US); **G01S 7/524** (2013.01 - EP US); **G01S 15/10** (2013.01 - EP US); **G01S 15/931** (2013.01 - EP US)

Citation (search report)

- [X] US 5991234 A 19991123 - SEJALON FREDERIC MARCEL [US], et al
- [A] US 5596311 A 19970121 - BESS EMERY L [US], et al
- [A] US 2009267797 A1 20091029 - KIM JEONG HOON [KR]
- [A] EP 0447076 A2 19910918 - FEDERAL IND IND GROUP INC [CA]
- [A] EP 1529570 A2 20050511 - SHERWOOD SERV AG [CH]

Cited by  
ES2632260A1; EP3360617A1; CN108405291A; EP2618177A1; US11192140B2; WO2017153622A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2381271 A1 20111026; EP 2381271 B1 20160427**; US 2011261652 A1 20111027; US 8699299 B2 20140415

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**EP 11158242 A 20110315**; US 76763010 A 20100426